

THE TECH



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March 21
1901

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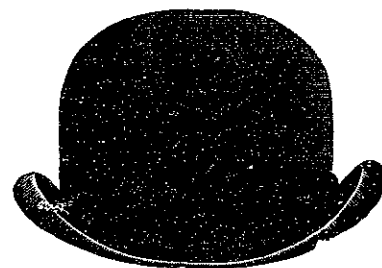
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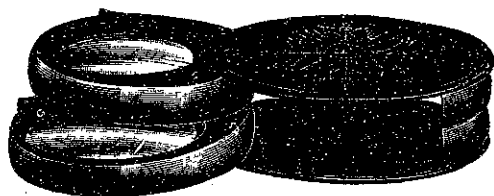
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In writing advertisers kindly mention THE TECH.

THE TECH

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NO. 21.

THE TECH

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

WALTER HAVENS FARMER, 1902, *Editor in Chief*.
ROLAND BALL PENDERGAST, 1902, *Assistant Editor in Chief*.
I. RAYNE ADAMS, 1902, *Secretary*.
H. W. MAXSON, 1901.
ROBERT WHITE, JR., 1901.
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Editor in Chief, Monday, 9-10 A. M.
Business Manager, Saturday, 12-1 P. M.

For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

Subscription, \$2.00 per year, in advance. Single copies, 10 cts. each.

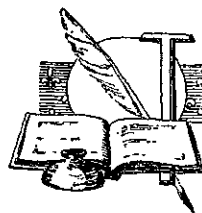
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OW that Technology is to present three student plays, "The Grand Duke," the Walker Club Play, and the French Play, special efforts should be made by the undergraduate body to make these undertakings successful — and successful not only in a broad way, but in detail as well. Everything about the performances should be worked up carefully. To do this the student body must appreciate the necessity of thorough coöperation in its broadest sense. Men are wanted for the choruses and ballets and as the time in which the plays are to be worked up is short, these must be re-

cruited at once. It is hoped that the response to the needs of the plays will be general and conscientious.



HAT the students mean business in the undergraduate movement for subscriptions to the Walker Memorial Gymnasium Fund was evinced by the hearty response which the Sophomore Class gave to the call for contributions at its annual dinner last week. The Class of 1902 had the honor of inaugurating the movement and giving it a start with \$150. The Class of 1903 had not this privilege but with a will did that which remained for it to do, and gave the movement an additional impetus with a subscription of \$180. But it must be borne in mind that the work has just commenced. All those at the dinner did not contribute and the number present was a small proportion of the classes. The Freshman Class is yet to be heard from and with its advantage in numbers large results are to be expected. Active committees have the matter in charge and the entire student body will be canvassed. Each man shall be given the opportunity to do or shirk his duty.



HE action of the Advisory Council in recommending to the Corporation a scheme for the better support of athletics has aroused the greatest interest among the undergraduates. It seems that at last the time is close at hand when athletics will be

on a firm basis, directly supported by all the students instead of by the few. The plan of assessing each man in his tuition bill is not a new one, but has been shown by experience in other colleges to give the most satisfaction both to the students and to the athletic management.

The recognition of athletics by the Corporation cannot fail to place that side of Technology life on a better footing and make of it what it deserves to be.

The Advisory Council feels that baseball should be given up altogether on account of the early ending of the college year. As we have said before, the abolition of baseball seems the only course open unless we are willing to be represented by mediocre teams in all three branches, football, track athletics and baseball.

Coming from the Council the suggestions will in all probability be acted upon in the near future, so that a new era in athletics seems to be opening up to Technology.

Walker Memorial Building.

Now that the undergraduate movement for subscriptions to the Walker Memorial Fund is well under way, a brief statement as to the plans proposed with regard to the Memorial Gymnasium and a résumé of the work thus far accomplished may be of interest. The Faculty Committee at present in charge of the Fund consists of Dr. Pritchett, Prof. Chandler, Prof. Swain, Prof. Dewey and Prof. Hough. As is now well known, it is proposed that the gymnasium shall cost \$200,000, the Corporation to supply \$100,000 if graduates and students raise an equal amount, this amount to be obtained by July 1st, 1901. To date, the receipts for the Fund are \$56,300. The average subscription of each class is between \$2,000 and \$3,000. The Institute has an Alumni of nearly 5,000 members; about ten per cent of this number have thus far responded to the call for aid.

The Corporation has authorized the setting aside of 10,000 square feet of land on Trinity Place, corner of Stanhope Street, or if preferred, 48,000 feet on Garrison Street, for a site for the Walker Memorial Building. The chart in the fore part of the 1901 catalogue indicates the location of the former of these sites. Plans for the gymnasium are now under consideration by the Faculty Committee. It is proposed to make a strong appeal in the near future for the balance of the required \$100,000, which appeal shall be accompanied by the plans for the gymnasium as formulated by the Faculty Committee. The gymnasium is designed to serve as a department of the Institute for physical culture, for a comprehensive study and training of all that relates to the care of health. As President Pritchett said in his stirring, energizing address to the M. I. T. Alumni Association, the Walker Memorial Building "is to be, not a gymnasium in the narrow sense, but a building which shall minister to the social life of the students as well." The closing lines of this same address are a fitting summation of the foregoing statements. "What is wanted, is not so much the money of any man, but the individual service of the more than 4,000 graduates and students who have gone out from these halls, and with this coöperation you will erect not only a splendid monument to a splendid man, but you will find a source of inspiration of your own, compared to which money has no value."

Particulars of the Tech Show.

Hardley a week has elapsed since the call was made for candidates for the Tech Show, and yet the interest of the students in the affair has grown rapidly, and all evidences point to a great success being scored this year in a theatrical line. As has already been announced, the play to be given is "The Grand Duke," an opera by Gilbert

and Sullivan that has never before been produced in this country.

The opera has a gay, merry and nonsensical Gilbertian plot, in which are humorously interwoven the adventures of a company of strolling actors. The scene is laid in the grand duchy of Hesse-Halbfennig, where the duke is elected annually. The manager of a local theatrical company, noticing the unfitness of the reigning incumbent, succeeds in getting himself chosen to the office of grand duke. During the two acts of the opera several other people of the company successively occupy the ducal chair, but all of them find it a thorny and undesirable seat.

The leading lady, "Julia," who,

"By the resources of her histrionic art
Will give you her notion of a first-rate part,"

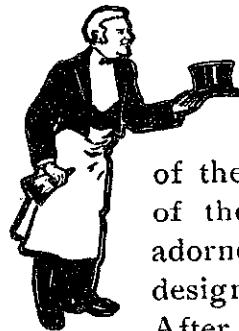
is to be taken by Lewis Emery, 2d, the able "Clover" of last year's show. Eccentric dancing, odd costumes, and many comic songs will contribute to make her part one of the hits of the show. Matthew C. Brush will be heard as "Ernest," the manager of the theatrical troupe, and the one who usurps the dukedom. John Brownell is to play the part of "Elsa," the little bride. The first act opens on her wedding day, a day which, in the course of the story, becomes heavily clouded with the complications which are continually arising.

The cast offers an unusually strong number of female parts. Many students are trying for the various characters, but as yet only those above mentioned have been definitely chosen for their parts.

The ballets and dances are, as in previous shows, to be made a special feature. In the wedding scene of the first act there is introduced a sabot dance, in which ten performers take part, five men and five women. In characteristic Dutch costume, and with the clattering accompaniment of the quaint and clumsy Dutch shoes, this is sure to capture

the house. Another interesting dance takes place during a wedding scene in the second act. The theatrical company think that the scene would be more effective if they are married in new costumes which they have obtained for a performance of "Troilus and Cressida" which they are to give. These old-fashioned costumes are accordingly worn with the most successful results. The closing ballet is to be kept unannounced as the surprise of the show. It is enough to say of it that not only will it far eclipse all former Tech ballets, but it will equal anything of the sort that has ever been seen on a Boston stage.

Sophomore Dinner.



The Class of 1903 held its Sophomore dinner at the Thorndike on the evening of March 16th. Fifty-seven of the class enjoyed the pleasures of the evening. The menu was adorned by a neat and appropriate design by A. H. Hepburn, '03. After his opening address, President R. M. Field presented the toastmaster of the evening, J. L. Gilson. The musical talent expected failed to materialize, so this portion of the evening's program was necessarily omitted. The toasts of the evening were opened by Benjamin Nields, Jr., in a serious and appreciative address on the popular topic, "Our President." F. T. Taylor responded to the toast, "The Class," with a brief sketch of the history of the class since its entrance into the Institute and hopeful speculations as to its future. The next toast, "The Faculty," was to have been taken by Findley Burns; but because of his forced absence this weighty subject was taken in charge by F. W. Davis. H. T. Winchester handled the toast on "Track Athletics," in a straightforward manner, deploring the inferior position which Tech now holds in the world

of college athletics and predicting, from the renewed impetus received from the advent of Dr. Pritchett, a revival and rapid progress in this all-important department of college life. W. M. Drury departed from the toast set for him, "Town Topics," and made an earnest appeal for real, healthy class and college spirit. M. Y. Ferris closed the list of toasts with the timely topic, "Our Technique." That which will make the dinner a memorable success was the spontaneous manner in which those present responded to the call for subscriptions to the Walker Memorial Fund. H. T. Winchester had the matter in charge, and after a brief explanation of the object of the Fund and an appeal to each man's sense of duty, he started the subscription list around the table. A calculation of the result of this action showed the amount subscribed to have reached the sum of one hundred and eighty dollars. Among those present were:—J. L. Gilson, R. M. Field, G. B. Seyms, C. B. Cox, B. G. Fogg, M. Y. Ferris, C. O. Egerton, E. F. Ricker, W. A. Smith, C. W. Beverstock, G. H. Clapp, W. C. Rott, K. D. Jewett, H. Breed, F. Nickerson, L. H. Lee, F. T. Taylor, W. M. Drury, C. L. Bates, L. H. Underwood, H. S. Morse, L. B. Rapp, J. T. Cheney, R. M. Lawton, J. M. Grice, F. W. Davis, H. T. Winchester, P. R. Parker, S. B. Tuell, R. H. Howes, K. W. Endres, R. R. Jordan, R. L. Kruse, C. S. Cole, E. R. Humphrey, S. C. Merrick, G. M. Harris, G. B. Wood, W. L. Wing, B. Nields, Jr., H. A. Stiles, C. M. Hardenbergh, E. C. Thompson, J. F. Pell, E. H. Millard, S. A. Foster, W. F. Robertson, R. D. Morris, L. R. Kaufman, W. Whitehead, C. J. Smith.

Calendar.

Thursday March 21st.—M. I. T. Yacht Club; Room 11, Rogers, 4.15 P. M.

Saturday, March 23rd.—Hare and Hounds Club Run from Wellesley Hills; leave Trinity Place Station at 2.15.

Saturday, March 30th.—Hare and Hounds Club Handicap and Championship Run, Wellesley Hills.

Heating and Ventilation as a Technical Profession.

The technically trained man finds his appropriate place wherever energy, in any of its multifarious forms and transformations, is or may be turned to industrial or to vital account. He is capable of choosing the ends to which available energy shall be directed, and of so directing that energy as to effect the ends sought. The technically trained man is, or should be, pre-eminently qualified to discover, command and effectively utilize all energy within human reach and serviceable for human ends. The marvelous advance of the last century in matters pertaining to industrial and economic development has been in large part due to the increasing number of technically trained men who have become students of the resources and of the services of forces at human disposal. That community which invests most generously in means for the correct and thorough technical training of industrial promoters and workers, puts itself in a position to advance most rapidly and surely in material growth.

Man himself is part and product of the universal energy in the midst of which he lives, and in which all his activities have their origin and completion. He is strong or weak according to his capacity for appropriating and effectively using that energy. His physical vitality and mental force are intimately associated, and interdependent. His physical energy is chiefly or wholly derived from energy pre-existing in so-called chemical forms, and residing in the atomic relations between the carbon and hydrogen in foods, and the oxygen in air.

The chief function of ventilation is to supply the needed air for energy transformation from the chemical to the thermo-vital form, and to remove certain of the waste products of the attendant chemical and resultant vital processes. The field of technically trained men being pre-eminently in the realm of the transformation and application of energy, ventilation in its relation to vitality lies well within the scope of his appropriate attention and work.

As an applied science, ventilation involves the movement of air through supply and discharge conduits, and either such effective diffusion of air within enclosures as to furnish air to and remove impurities from all their parts, or else such concentration of air movement as shall prevent the diffusion of impurities

locally produced, and as shall effect their removal without diffusion through the enclosures. So considered, ventilation is a department of mechanics and mechanical engineering, a distinctly technical field. Without technical knowledge and training, the questions of simple mechanics which are involved in such problems become mysterious in theory and vagaries in practice, and results become a matter of chance rather than of precision. Ventilation deals with air, an invisible substance; with vitiation, an invisible impurity; with unseen motions; with motive forces often intangible; with courses of motion which are limited within invisible bounds. The field is a wide one for the play of fantasy in its mild and in its most erratic form. The capricious art can become an established science only in the hands of those who are too well grounded in the fundamental principles of ventilation involved to make it possible for them to entertain any theory, advance any explanation, or advocate any practice in matters of ventilation which is not clearly based on the demonstrable laws and well-known phenomena of the mechanics of gases, all of which demands a technical training of no mean order.

Inseparably involved with the cold weather ventilation of buildings for habitation is their warming. Their warming is the counterpart of their cooling. Heat losses are matters of heat transmission by conduction, and of heat absorption and emission by convection and radiation, and of chill and waste by air leakage. Warming includes heat production and distribution; fuels and their combustion; the transfer of the heat of combustion to buildings by radiation and convection, and through the mediums of radiant energy, and of air, of water and of steam as the ordinary vehicles of heat transfer; and the phenomena and laws of heat transfer from convectors to air under variable conditions of temperature differences, rates of air flow and form of convecting surfaces. The laws of the flow of water and of steam, the specific heats of air and water, and the latent heats of steam are so involved in this side of ventilation and heating problems as to make their complete solution dependent on the correct application of physics, steam and hydraulic engineering to each undertaking.

The world's poverty is in the prodigality of its wastes rather than in the paucity of its resources. One of the services of largest value which the technically trained man may contribute to the world's progress is in the reduction of its wastes. From the

standpoint of our present observation, preventable waste is evident and enormous. It begins in the mal-adjustment of human vitality with the conditions on which the robustness and vigor of that vitality is inexorably dependent. It is continued in every faulty method by which it is sought to remedy and to right such mal-adjustment,—in the meagreness and in the extravagance of methods used; or in the ill adaptation and low efficiency of means employed, such as in waste of fuel in heat production, of heat in its application to its uses, of air in ventilating work, of power in the mechanical work of ventilation, of money in the costs of installations and in the operation of heating and ventilating systems; and worst, because far-reaching in its effects, in waste due to the miscarriage of rational purposes and honest efforts on the part of owners to provide for their buildings every requirement for their highest uses in the protection of life and the promotion of health.

The extent of the field for engineering work in the department of heating and ventilation is a variable, but generally a large and progressive one. From a monetary point of view, its extent may be estimated from the amount of building done, and from the further fact that in average buildings furnished with steam or hot water systems the cost of heating and ventilating installations is approximately one-tenth of the total cost of the building. The examination of the monthly reports of building bureaus will make evident the large financial interests invested in this branch of engineering work. Because of the ultimate if not immediate superior service to be expected from men trained in technical rather than in rule-of-thumb schools, and because of the increasing evidence of the higher excellence of the work of the broadly trained technical engineer than of that furnished by the trade engineer, the demand for technically trained service must continue until all the positions of designing and operating engineers which can be profitably filled by technically equipped rather than by trade-taught men shall be in their possession. Properly qualified men in this department of engineering work are as yet so few that the National Government has found it far more difficult to fill the positions open to them than to find candidates for any other line of engineering work.

The Massachusetts Institute of Technology has, during the last fifteen years, taken an active if not a

leading part, in the development of this branch of technical engineering, both in the teaching of its class rooms and in the practical application and work with which that teaching has been illustrated, as well as in the excellence of the work its graduates have done and are doing in this field of engineering. The Massachusetts Institute of Technology has been early in its recognition of the vital and economic significance of this branch of technical study and practice, and has established an engineering option as a graduating course designed to qualify those who take it for service in a field heretofore largely relegated to and worked by tradesmen, but now recognized as the appropriate ground for technical service of the highest utility.

S. H. WOODBRIDGE.

We take pleasure in printing herewith a letter from the Advisory Council on Athletics to the Corporation.

BOSTON, MASS., January 3rd, 1900.
CORPORATION INSTITUTE OF TECHNOLOGY,

Boston, Mass.

Gentlemen:—The Advisory Council on Athletics of the Massachusetts Institute of Technology, feel now that from an experience of three years, they can safely recommend to the attention of the Corporation the matter of the support of athletics in a financial way.

In the colleges from which there are a large number of alumni, whose time of graduation extends over many decades, athletics in general are supported by the proceeds of one or two branches. For instance, at Harvard and Yale, such branches as track athletics and rowing, which are not self-supporting, are really paid for by the proceeds of football and baseball games.

Now at the smaller colleges there has been a tendency to support athletics by direct contributions from the college fund. This is the case at Tufts today, and the matter, we understand, is being considered at Dartmouth.

Athletics at the Institute during the past two or three years (as conducted by the students) have been run on the most economical methods, and it has been impossible in any way to lessen the expenses, and the Advisory Council have kept a very close supervision upon same.

The Advisory Council have felt that there were

only practically two branches of athletics which could be carried on at the Institute successfully and without detriment to the studies of the undergraduates, and these are track athletics and football. The season for football is only of six to eight weeks' duration in the fall, whereas track athletics can be carried on throughout the winter in the Gymnasium, and in the spring on the field, but owing to the early closing of the Institute's year, as compared with other colleges, baseball and rowing cannot be satisfactorily followed.

Football has for the past two or three years averaged a deficit of about \$100 to \$150, and track athletics have shown a deficit of about \$250. The reason for such difference is that there are more receipts from football games than from track athletics.

Now up to 1899 the Walker Club gave a part of the proceeds of their play to the football team and partly to track athletics, and thus these deficits were practically made up.

In 1899, however, they ceased their contribution and gave \$600 to the Walker Memorial Gymnasium. This led the Athletic Associations to give a minstrel show, the receipts of which practically made up their deficit, and this was repeated in the form of a light opera in 1900 for the benefit of both associations, and the profits were sufficient to pay all debts and leave a small balance in the hands of the Graduate Treasurer.

The tendency, however, in all colleges being to recognize athletics, not only morally but financially, it seems to the Advisory Council as though the Massachusetts Institute of Technology should be among the foremost in taking a step in this direction, as there has been but very little recognition given athletics here in the past.

We do not feel it necessary at this time to rehearse the various arguments in favor of the necessity of physical exercise in connection with severe mental work.

The recognition given to the Walker Memorial Gymnasium shows a strong feeling among the alumni in this direction, and we feel that their recommendation is such as carries the utmost weight. We, therefore, would bring before the Corporation the question of making either an annual appropriation (said money to be placed in the hands of the Treasurer of the Advisory Council) for the support and maintenance

of athletics in general at the Institute, or by an assessment on each man, same to be collected by the Bursar with the term bills, and transmitted by him to said Graduate Treasurer.

We would respectfully bring this before the Corporation for consideration, and if favorably acted upon in a general way, that same go into effect during the next college year.

Hare and Hounds Run.

The first Hare and Hounds Run for 1901 was held from West Roxbury last Saturday. F. H. Hunter, '02, and S. T. Worcester, '04, the hares, laid a trail of six miles, leading through the Brook Farm woods to the foot of Oak Hill and Bald Pate Hill in Newton, returning over Mt. Benedict. The hounds came in together, Holcomb, '04, leading Pember, '02, by a few feet. Considering the heavy footing the time was very good.

Civil Engineering Society.

At the meeting of the Civil Engineering Society on March 15, Messrs. Brownell and Loring, '01, spoke on the subjects, "Underground Trolleys" and "Plumbing of Tall Buildings," respectively. The Society is to hold its annual dinner at 7.30 on the evening of April 10th at the United States Hotel.

Handicap Run of the Hare and Hounds.

The fourth annual Handicap and Championship Run of the Hare and Hounds Club will be held Saturday, March 30th, 1901, from Wellesley Hills. The course will be eight miles through varied country including woods, pasture, field and highway. The limit of the handicap will be seven minutes. All Institute men are eligible. Prizes are given to the first three men who finish, and to the man who covers the course in the shortest time. The runner making the best time is champion of the club for the year. The entry fee is fifty cents to outsiders; twenty-five cents to members of the club. No man will be allowed to start until his entry fee is paid. Entries close on Thursday,

March 28th, at 4.30 P. M., with F. H. Hunter, '02, manager.

The trail for the Handicap Run will be laid on Saturday, March 23d, and all men intending to run are advised to come out on that day in order to become familiar with the course. Men wishing to go out at any other time, or desiring further information concerning the run should consult the manager in Room 40, Pierce building, any afternoon, except Saturday, between two and four.

Department of Physics.

The department of Physics has recently added the following valuable instruments to its optical branch:

A Michelson's Interferometer, for measuring the wave-length of light; a Pulfrich Refractometer, for measuring the index of refraction and dispersion of transparent solids and liquids for the Fraunhofer Lines, at all temperatures between 0° and 75° C.; a Focometer nach Abbe, for measuring the focal length of lenses; and an Interference Spherometer, an optical arrangement for measuring the thickness of plates up to 15 m. m.

The Electrical Engineering Society.

The Electrical Engineering Society visited the Atlantic Avenue Power House of the Boston Illuminating Company last Saturday. They visited all parts of the works, Mr. Parker explaining the system. Of particular interest were their two new 16,000 kilowatt generators, each to be attached to the outside wires of the three-wire system; the neutral wire being fed by a small generator. The engines running the generator are nominally 25,000 horse-power, but can be run to 40,000 with only one-half cut-off. The armature is surface-wound and so connected that on one side a direct current is taken off, and on the other an alternating current. The new arrangement in the switch-board is also of great interest.

Football Association Elections.

The football association held its annual election of officers last Friday. The election resulted in the choice of men who have been prominent in football since they entered the Institute.

Henry K. Hooker, '02, was elected President. Last fall he was chosen captain of the 'Varsity football team for next season. He prepared for the Institute at the Wellesley High School and played football on the team of the Maugus A. A. of Wellesley. He has also been connected with the Musical Club and this year is the leader of the Glee club.

Paul R. Parker of the Sophomore Class was chosen Vice President. In his Freshman year Mr. Parker captained his class football team and this year represents his class on the Institute committee.

For Secretary and Treasurer John F. Cheney, '03, was the successful candidate. He has played on his class team for two years and last season was manager.

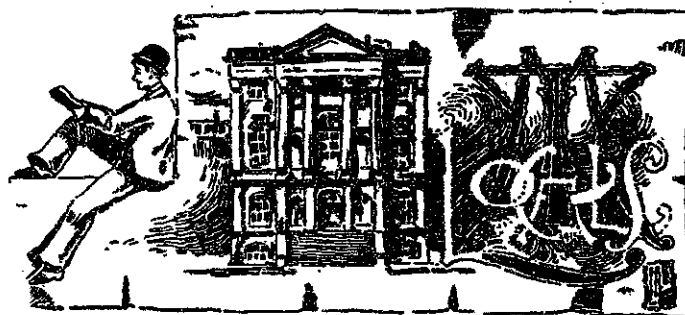
Robert A. Pope will be the representative at the Advisory Council the coming year. Pope is well known in athletics, both on the gridiron and on the track. He is also the originator of the plan to collect subscriptions from the undergraduate body of the Institute.

The following men were elected to the Executive Committee: Charles E. McCarthy, '02; Silas C. Merrick, '03; W. F. Dillon, '04.

Musical Clubs.

The Glee, Banjo and Mandolin Clubs give a concert in Watertown tonight at the Town Hall under the auspices of the Watertown Y. M. C. A. Members will be on hand at 7.45 P. M. sharp. The next concert will be held at the West Newton Unitarian Church, Friday, March 27th.

Princeton is to have a new golf course. It will contain eighteen holes and be one of the longest in the country.



The Board of Editors of THE TECH will give a tea Junior week.

About one-third of the students at the Institute came under the head of "Special."

President Arthur T. Hadley of Yale University gave a most interesting address March 12th, at the Technology Club, on his personal reminiscences of President Walker.

The Eclipse party was heard from by cable from Gibraltar, where they arrived safely March 5th, after a very pleasant voyage. They were to leave Genoa last Thursday.

The publishers of the *Atlantic Monthly* have made inquiry of Secretary Tyler for student canvassers. Any students desiring further information are invited to consult with the Secretary.

The Corporation has issued in connection with the catalogue a separate booklet containing the Inaugural Addresses as reprinted from the *Technology Review*. Copies of this publication may be obtained at the Secretary's office.

A bulletin from the Secretary's office bearing date of March 12th may be of interest to students in general. It concerns the spring vacation and reads: "Exercises will be suspended for the student theatricals on the afternoons of Tuesday, April 30th, and Friday, May 3rd, but the April recess will include only the 19th and 20th, exercises being held on Thursday, the 18th."

What is the Annual Publication of the Junior Class, M. I. T.? *Technique*.

Last Thursday Courses V. and X. visited the Curtis Davis Soap Company, Broadway, Cambridgeport. The Superintendent, Mr. James W. Loveland, M. I. T., '88, conducted the party around, showing and explaining all the processes of manufacture.

There has recently been added to the equipment of the department of Mechanic Arts an universal cutter and reamer grinder, built by the Norton Emery Wheel Co. of Worcester, Mass. The office of this machine is not only to do cutter and reamer grinding and sharpening, but to do general machine grinding also.

On Wednesday afternoons, March 13th and 20th, Mr. Doane of the Marlboro Electric Company gave very interesting talks to the fourth-year men in Course VI. on the "Manufacture of Incandescent Lamps." These were the first of the special lectures that are to be given this term to the electrical engineers.

The date for the Spring Class Championship games has been fixed for Saturday afternoon, April 20th. In addition, Manager Parrock is endeavoring to arrange for a dual meet with either Brown or Amherst, to be held if possible on Saturday, April 27th or May 4th.

How many pages will *Technique* contain? About 425.



'93. Captain John C. Brown, VI., died January 16th, in Los Angeles, from sickness contracted in Luzon, Philippine Islands, where he was serving as a corporal in Company B, United States Engineer Corps. He gained his rank as a volunteer in the Eighth New York Regiment during the war with Spain. He was buried with military honors.

'94. George Owen, II., is with the Herreshoff Manufacturing Company, Bristol, R.I.

'95. J. T. Dorrance, V., is vice-president of the Joseph Campbell Preserve Company.

'96. James A. Rockwell, VII., and Miss Mary Alice Tufts, were married in October, 1900. They are now residing in Boston.

'97. George R. Wadleigh, II., is assistant superintendent of the Jackson Fibre Company, Jackson, Tenn.

'98. J. T. Robinson, Jr., II., has done considerable work on the construction of gasoline automobiles.

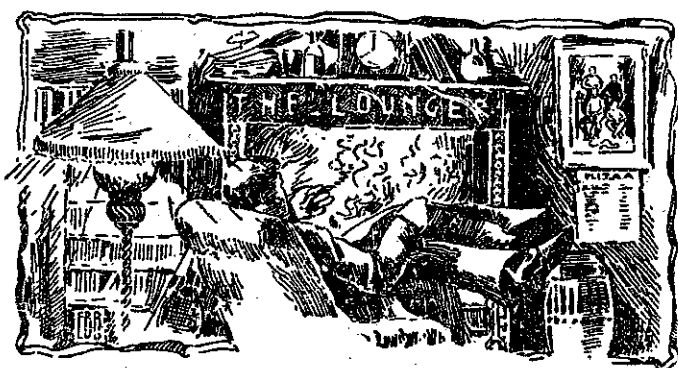
'00. George A. Tweedy, III., is occupied at present in California as State Inspector of Mines.

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THE LOUNGER feels happy to announce that his prophesy about the annual catalogue has been substantiated. He learns on looking at the inside of the cover that it was issued in December. As the Bursar is usually dormant from November to February, THE LOUNGER is sure his suspicions were correct; it was intrusted to his care.



THE LOUNGER has been greatly interested to see the lengths to which practical applications of mathematics are being carried. It seems that the suggestion was made at the Sophomore dinner that it might call up pleasant memories if a subscription was raised proportional to the Juniors as 6:5 and THE LOUNGER extends congratulations on the rapid way in which the trick was done. But he would like to utter a warning, "Do not carry this too far;" if this mathematical fervor should reach the Freshmen in the same manner, it might be rather disastrous for the subscriptions. THE LOUNGER would say, "Forget the game and make the ratio what you expect to do next year." If this advice is faithfully carried out, he warrants the biggest purse yet.



THE LOUNGER is glad to hear that others besides Tech students are making reputations for themselves; the last one who has acquired fame in a town not many miles from Boston for a machiavellian skill and ingenuity is an electrical professor. He was engaged to make a test on a car line out of town; for this he would require a large number of assistants at so much per diem. But no, this benevolent professor kindly remembers his students and feeling the cruelty of letting them miss such a chance for experience, he consents to allow volunteers to serve him. The class looking for C's "would be charmed." More than enough offer to go. The professor accepts and saves so much cash. THE LOUNGER has nothing but praise; it was a scheme worthy of his own brain.



It is a matter of pleasure to THE LOUNGER to

observe that the attempt is being made to add a dash of piquancy to the otherwise rather unexhilarating lectures on Optics. He has seen eight rays aimed in one direction, caught by devilish agencies and hurled with pitiless directness right into his eyes; he has seen solar spectra made with an electric arc; but it has remained for him to see his beloved lecturer turned into a fire extinguisher. The room was dark, the spectra was verging upon the screen, the long-suffering students were busy dodging the stray ghosts and ghostlets which were being promiscuously projected around the room; the Co-eds were sighing at the beautiful brilliancy of the seven colors; when lo, from the back of the lantern leaping, licking tongues of fire were seen creeping upwards. The most admirable order prevailed; the lecturer was duly informed in gentle, but admonitory tones that his spectra was escaping by the back entrance, the arms of an entire row of men were extended for protection of the better looking of the Co-eds, some adventurous spirits were contemplating making use of their mode of egress from history last year, but it was all unnecessary. With admirable presence of mind the lecturer, quivering with suppressed heroism rushed around to the conflagration and — blew. Ye gods, but Aeolus was outdone; the flames raged, fought, struggled, hesitated, and gave in. An eraser completed their annihilation. The class relieved from its awful strain sighed, one of the Co-eds attempted to turn pale, but the left end of the spectra was upon her; it was impossible.



THE LOUNGER always hesitates about drawing too hasty conclusions from passing events. Hence he leaves his readers to draw their own conclusions in this tale. Some time ago THE LOUNGER's attention was attracted by a shop window in which were exhibited some walking canes; now this in itself is very commonplace, but the canes were extraordinary. In the handle of each was a screw top, which when opened unrolled to the observer the mysteries of a flask. It seems presumable to THE LOUNGER that the flasks were intended to hold liquids, but that is only a surmise. Now, it was shortly after this time that THE LOUNGER, following his spiritual adviser's advice, was walking along Tremont Street after the theatre, late in the evening, and suddenly there came into the field of his wandering gaze the figure of his well known mathematical professor, hurrying along in the opposite direction. THE LOUNGER's features broke forth in a pleasant smile, which became absolutely seraphic when he observed the article carried in the professor's hand. It was a counterpart of his wonderful cane. The professor noticed the glance and also beamed with a glow of absolute contentment, and THE LOUNGER passed on and was envious.

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Week Commencing March 25, 1901.

Hollis Street Theatre.— Mr. Gillette in his wonderful portrayal of "Sherlock Holmes" will not be seen in Boston after this week. Next Week John Drew will begin a two weeks' engagement in "Richard Carvel." This play has met with great success in New York and its coming is awaited with interest.

Colonial Theatre.— "Ben Hur" is having a phenomenal run and is being played before crowded houses at every performance. Many are so interested that they go not once, but many times, to see it. The stage pictures are wonderful, the chariot race being probably the best of the many scenes. Seats may be secured three weeks in advance.

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Tremont Theatre.— Sarah Crowell LeMoyné has scored a decided hit in her comedy-drama, "The Greatest Thing in the World." Mrs. LeMoyné is supported by a company far above the average, and even the smallest parts are played with an extraordinary amount of care. Next week is Mrs. LeMoyné's last in Boston this season and no one should miss seeing her.

Boston Museum.— Louis Mann and Clara Lipman are repeating their success scored earlier in the season in "All on Account of Eliza." The situations are decidedly humorous, and Mr. Mann's German dialect is very amusing. Next week is their last week.

Castle Square Theatre.— "Under Two Flags" will be given for the rest of this week. Next week the regular company will give an elaborate production of "Peg Woffington," an old-time English play written by Charles Reade. Lillian Lawrence will play the title role.

Boston Theatre.— "The Runaway Girl" for the rest of this week. Next week, Primrose and Dochstader Minstrels.

Park Theatre.— This week, "The Girl from Maxims." Next week, "Sapho."

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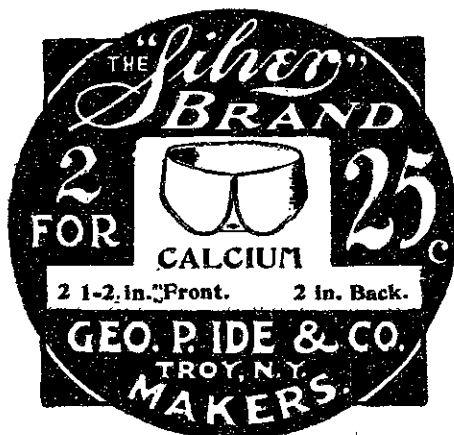


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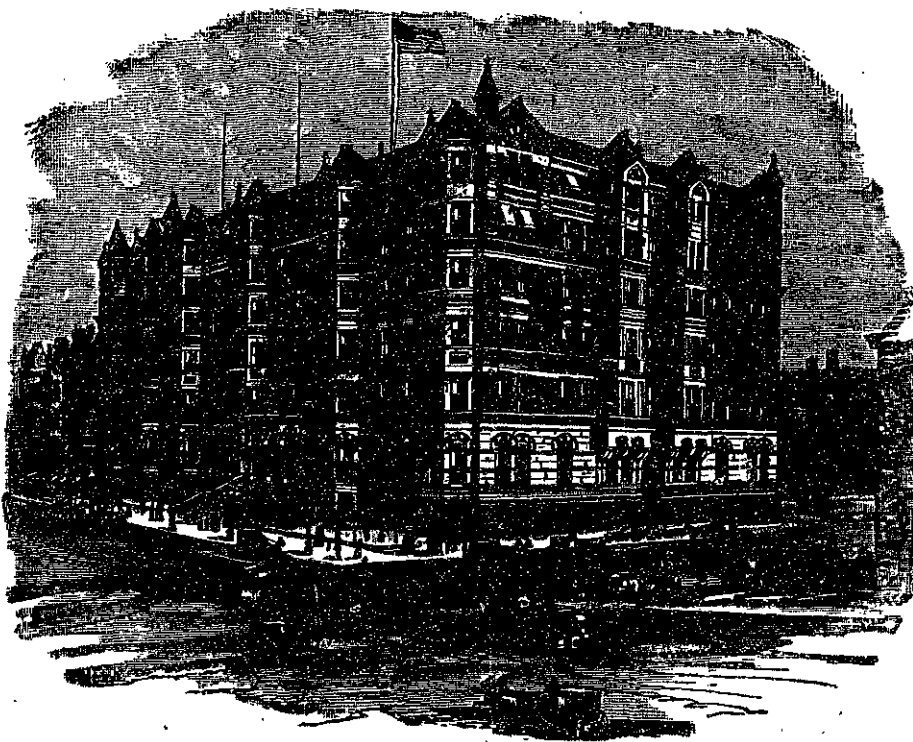
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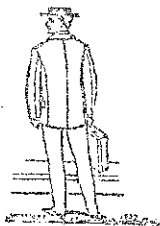
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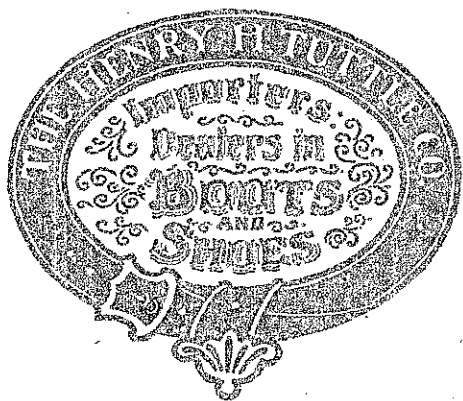
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